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Notice of Allowability	Application No.	Applicant(s)	
	09/904,315	KARAGIANNIS, GEORGIOS	
	Examiner	Art Unit	
	Thien D Tran	2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/12/2001.
2. ☒ The allowed claim(s) is/are 1-4, 9-11, 16-20, 25-29, 34, 35, 38, 39 renumbered as 1-21 respectively.
3. ☒ The drawings filed on 12 July 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>02/17/2005</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>1, 2, 3, 4</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

IDS 1 : 07/22/02 IDS 4 01/14/02
 IDS 2 : 03/14/02
 IDS 3 : 03/04/02

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Han on 02/17/2003.

Claim 1:

line 7, change "a path message" to become "a RSVP PATH message";

line 8, change "the path message" to become "the RSVP PATH message";

line 9, change "a reservation request message" to become "a RSVP RESV message", and change "the path message" to become "the RSVP PATH message".

Claim 5 (delete).

Claim 6 (delete).

Claim 7 (delete).

Claim 8 (delete).

Claim 9:

line 7, change "a path message" to become "a RSVP PATH message";

line 8, change "the path message" to become "the RSVP PATH message";

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line 9, change "a reservation request message" to become "a RSVP RESV message", and change "the path message" to become "the RSVP PATH message".

Claim 12 (delete).

Claim 13 (delete).

Claim 14 (delete).

Claim 15 (delete).

Claim 16:

line 5, change "a path message" to become "a RSVP PATH message";

line 7, change "a reservation request message" to become "a RSVP RESV message", and change "the path message" to become "the RSVP PATH message".

Claim 21 (delete).

Claim 22 (delete).

Claim 23 (delete).

Claim 24 (delete).

Claim 25:

line 5, change "a path message" to become "a RSVP PATH message";

line 6, change "the path message" to become "the RSVP PATH message";

line 8, change "a reservation request message" to become "a RSVP RESV message", and change "the path message" to become "the RSVP PATH message".

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Claim 30 (delete).

Claim 31 (delete).

Claim 32 (delete).

Claim 33 (delete).

Claim 34:

line 5, change "a path message" to become "a RSVP PATH message";

line 7, change "a reservation request message" to become "a RSVP RESV message", and change "the path message" to become "the RSVP PATH message".

Claim 36 (delete).

Claim 37 (delete).

Claim 38:

line 5, change "a path message" to become "a RSVP PATH message";

line 6, change "the path message" to become "the RSVP PATH message";

line 7, change "a reservation request message" to become "a RSVP RESV message";

line 8, change "the path message" to become "the RSVP PATH message";

Claim 40 (delete).

Claim 41 (delete).

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

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Regarding claims 1 and 9 the prior arts fail to teach or fairly suggest a route – optimization method and system, wherein the method and system comprises:

receiving a binding update includes a care-of address of a mobile node;

creating a binding to the care-of address responsive to receipt of the binding update;

sending a RSVP PATH message responsive to receipt of the binding update, wherein the RSVP PATH explicitly binds a data path of a packet flow to the mobile node; and

receiving a RSVP RESV message responsive to the path message, in combination with other limitations as specified in claims 1 and 9.

Regarding claims 16 and 34, the prior arts fail to teach or fairly suggest a route – optimization method and system, wherein the method and system comprises:

sending a binding update in response to a binding request, wherein the binding update includes a care-of address of a mobile node, a binding to the care-of address is created responsive to receipt of the binding update, a RSVP PATH message that explicitly binds a data path of a packet flow to the mobile node is sent responsive to receipt of the binding update, and a RSVP RESV message is sent responsive to the RSVP PATH message, in combination with other limitations as specified in claims 16 and 34.

Regarding claims 25 and 38, the prior arts fail to teach or fairly suggest a route – optimization method and system, wherein the method and system comprises:

sending a binding update in response to the binding request, wherein the binding update includes a care-of address of a mobile node;

receiving a RSVP PATH message sent in response to receipt of the binding update, wherein the RSVP PATH message explicitly binds a data path of a packet flow to the mobile node; and

sending a RSVP RESV message responsive to the RSVP PATH message, in combination with other limitations as specified in claims 25 and 38.

Conclusion

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (571) 272-3156. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197.

Patent Examiner

Thien Tran

DUCHO
PRIMARY EXAMINER

A handwritten signature in cursive script, appearing to read "Duchotto", written in black ink.

3-4-05